

LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT

APR 15 2002 (several sheets if necessary)

ATTY. DOCKET NO.
612,404-384 (formerly
267/156)SERIAL NO.
10/072,660APPLICANT:
Ying Huang et al.FILING DATE:
February 6, 2002GROUP:
1741 1753

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|---------------------|-----------------|-------|-----------------|-------|--------------|----------------|
| ADD | US-3627137 | 12/71 | Bier | 210 | 321 | 10/68 |
| ADD | US-4617102 | 10/86 | Tomblin et al | 204 | 299 | 03/85 |
| ADD | US-4737259 | 04/88 | Ogawa et al | 204 | 299 | 12/86 |
| ADD | US-4936963 | 06/90 | Mandecki et al | 204 | 182.8 | 05/89 |
| ADD | US-5078853 | 01/92 | Manning et al | 204 | 299 | 03/91 |
| ADD | US-5427664 | 06/95 | Stoev et al | 204 | 182.3 | 07/93 |
| ADD | US-5593580 | 01/97 | Kopf | 210 | 321.75 | 03/95 |
| ADD | US-5728267 | 03/98 | Flaherty | 210 | 321.67 | 11/94 |
| ADD | US-6048690 | 04/00 | Heller et al | 435 | 006 | 05/97 |
| ADD | US-6051380 | 04/00 | Sosnowski et al | 435 | 006 | 12/97 |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION YES NO |
|---------------------|-----------------|-------|--------------------------|-------|--------------|-----------------------|
| ADD | DE 2051715A | 04/72 | Germany (Max Planck Ges) | — | — | — ✓ |
| ADD | GB 1359944A | 07/74 | GB (Miles Labs) | — | — | — — |
| ADD | GB 2118975A | 11/83 | GB (Nishizawa) | — | — | — — |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

| | |
|-----|---|
| ADD | CHENG, J., et al. "Preparation and Hybridization Analysis of DNA/RNA From E.coli On Microfabricated Bioelectronic Chips", Nature/Biotechnology, 16, pp. 541-546 (1998) |
| ADD | GILLES, P.N., et al. "Single Nucleotide Polymorphic Discrimination By An Electronic Dot Blot Assay On Semiconductor Chips", Nature/Biotechnology v. 17, #4, pp. 365-370 (1999). |
| ADD | HELLER, M.J. "An Active Microelectronics Device For Multiplex Analysis", IEEE Engineering in Medicine and Biology, pp. 100-104 (March/April 1996). |
| ADD | HUANG, Y., et al. "Electric Manipulation of Bioparticles and Macromolecules on Microfabricated Electrodes" Analytical Chemistry, v.73, n.7, pp. 1549-1559 (2001) |

EXAMINER:

Not Yet Assigned

DATE CONSIDERED:

1/10/05

EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant

FORM PTO-1449

ATTY. DOCKET NO.

612,404-384 (formerly
267/156)

SERIAL NO.

10/072,660

OFFICE OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT:

Ying Huang et al.

FILING DATE:

February 6, 2002

GROUP:

174 1753

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

MANZ, A., et al., "Miniaturized Total Chemical Analysis System: A Novel Concept for Chemical Sensing" Sensors and Actuators B1, pp. 244-248 (1990)

RECEIVED
APR 16 2003
TC 1700

EXAMINER:

Not Yet Assigned

DATE CONSIDERED:

1/10/05

EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant

**QUESTIONS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

APPLICANT:

Ying Huang, et al.

FILING DATE:

February 6, 2002

GROUP:

1753

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|---------------------|--------------------|------------|-------------------|----------------|------------------|-----------------------|
| ADD | 3,346,479 | 10/10/1967 | Natelson | 204 | 301 | 04/09/1964 |
| ADD | 3,375,187 | 03/26/1968 | Buchler | 204 | 301 | 05/13/1965 |
| ADD | 3,533,933 | 10/13/1970 | Strauch | 204 | 180 | 04/01/1968 |
| ADD | 3,539,493 | 11/10/1970 | Dorman | 204 | 299 | 08/31/1967 |
| ADD | 3,616,454 | 10/26/1971 | Levy et al. | 204 | 299 | 03/13/1969 |
| ADD | 3,640,813 | 02/08/1972 | Nerenberg | 204 | 299 | 06/09/1969 |
| ADD | 3,697,405 | 10/10/1972 | K. Butter et al. | 204 | 275 | 11/03/1969 |
| ADD | 3,773,648 | 11/20/1973 | Van Welzen et al. | 204 | 299 | 10/25/1972 |
| ADD | 3,791,950 | 02/12/1974 | Allington | 204 | 299 | 02/14/1972 |
| ADD | 3,902,986 | 09/02/1975 | Nees | 204 | 299 | 04/23/1973 |
| ADD | 3,980,546 | 09/14/1976 | Caccavo | 204 | 299 | 06/27/1975 |
| ADD | 4,111,785 | 09/05/1978 | Roskam | 204 | 180 | 05/16/1977 |
| ADD | 4,326,934 | 04/27/1992 | Pohl | 204 | 547 | 12/31/1979 |
| ADD | 4,390,403 | 06/28/1983 | Batchelder | 204 | 547 | 07/24/1981 |
| ADD | 4,441,972 | 04/10/1984 | Pohl | 204 | 180 | 04/08/1983 |
| ADD | 4,479,861 | 10/30/1984 | Hediger | 204 | 180 | 07/19/1983 |
| ADD | 4,661,451 | 04/28/1987 | Hansen | 435 | 174 | 02/06/1984 |
| ADD | 4,699,706 | 10/13/1987 | Burd et al. | 204 | 301 | 05/30/1986 |
| ADD | 4,787,963 | 11/29/1988 | MacConnell | 204 | 180 | 05/04/1987 |
| ADD | 4,877,510 | 10/31/1989 | Chen | 204 | 299 | 10/25/1988 |
| ADD | 4,881,107 | 11/14/1989 | Matsushita | 357 | 234 | 06/29/1988 |
| ADD | 4,908,112 | 03/13/1990 | Pace | 204 | 299 | 06/16/1988 |
| ADD | 4,971,670 | 11/20/1990 | Faupel et al. | 204 | 182.8 | 04/08/1988 |

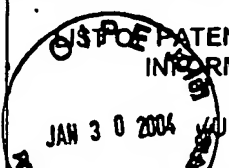
EXAMINER:

Kaj K. Olsen

DATE CONSIDERED:

1/10/05

EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant

| | | |
|--|---|---------------------------------|
| FORM PTO-1449  | ATTY. DOCKET NO. 612404-384 (prev 267/156) | SERIAL NO. 10/072,660 |
| | APPLICANT: Ying Huang, et al. | |
| | FILING DATE: February 6, 2002 | GROUP: 1753 |

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|---------------------|--------------------|------------|---------------|----------------|------------------|-----------------------|
| ADD | 5,085,756 | 02/04/1992 | Swedberg | 204 | 299 | 08/21/1990 |
| ADD | 5,126,022 | 06/30/1992 | Soane et al. | 204 | 180 | 02/28/1990 |
| ADD | 5,139,637 | 08/18/1992 | MacConnell | 204 | 299 | 09/13/1991 |
| ADD | 5,151,189 | 09/29/1992 | Hu et al. | 204 | 635 | 09/17/1990 |
| ADD | 5,161,165 | 09/29/1992 | Huynh | 204 | 299 | 04/25/1990 |
| ADD | 5,202,010 | 04/13/1993 | Guzman | 204 | 299 | 08/28/1991 |
| ADD | 5,209,831 | 05/11/1993 | MacConnell | 204 | 299 | 06/14/1991 |
| ADD | 5,217,593 | 06/08/1993 | MacConnell | 204 | 299 | 07/30/1992 |
| ADD | 5,269,931 | 12/14/1993 | Hu et al. | 210 | 635 | 08/20/1991 |
| ADD | 5,296,114 | 03/22/1994 | Manz | 204 | 180.1 | 11/30/1992 |
| ADD | 5,340,499 | 08/23/1994 | Shukla | 204 | 180 | 10/23/1992 |
| ADD | 5,344,535 | 09/06/1994 | Betts et al. | 204 | 183.1 | 04/27/1993 |
| ADD | 5,376,249 | 12/27/1994 | Afeyan et al. | 204 | 180 | 11/25/1992 |
| ADD | 5,382,511 | 01/17/1995 | Stapleton | 435 | 6 | 08/24/1992 |
| ADD | 5,445,934 | 08/29/1995 | Fodor et al. | 435 | 6 | 09/30/1992 |
| ADD | 5,434,049 | 07/18/1995 | Okano | 435 | 6 | 02/24/1993 |
| ADD | 5,451,500 | 09/19/1995 | Stapleton | 435 | 6 | 03/03/1992 |
| ADD | 5,527,670 | 06/18/1996 | Stanley | 435 | 6 | 08/09/1994 |
| ADD | 5,569,367 | 10/29/1996 | Betts et al. | 204 | 547 | 01/27/1995 |
| ADD | 5,589,047 | 12/31/1996 | Coster et al. | 204 | 450 | 04/05/1994 |
| ADD | 5,605,662 | 02/25/1997 | Heller et al. | 422 | 68.1 | 11/01/1993 |
| ADD | 5,632,957 | 05/27/1997 | Heller et al. | 422 | 68.1 | 09/09/1994 |
| ADD | 5,653,859 | 08/05/1997 | Parton et al. | 204 | 450 | 11/20/1995 |

| | |
|---|------------------------------------|
| EXAMINER: Kaj K. Olsen | DATE CONSIDERED: 1/10/05 |
| EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant | |

**OST PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT**

JAN 30 2004

Use several sheets if necessary)

APPLICANT:

Ying Huang, et al.

FILING DATE:

February 6, 2002

GROUP:

1753

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|---------------------|--------------------|------------|----------------|----------------|-----------------|-----------------------|
| ADD | 5,653,939 | 08/05/1997 | Hollis et al. | 422 | 30 | 08/07/1995 |
| ADD | 5,795,457 | 08/18/1998 | Pethig et al. | 204 | 547 | 06/05/1995 |
| ADD | 5,814,200 | 09/29/1998 | Pethig et al. | 204 | 547 | 09/26/1995 |
| ADD | 5,849,486 | 12/15/1998 | Heller et al. | 435 | 6 | 09/27/1995 |
| ADD | 5,858,192 | 01/12/1999 | Becker et al. | 204 | 547 | 10/18/1996 |
| ADD | 6,017,696 | 01/25/2000 | Heller | 435 | 6 | 07/07/1994 |
| ADD | 6,054,270 | 04/25/2000 | Southern | 435 | 6 | 09/09/1997 |
| ADD | 6,071,394 | 06/06/2000 | Cheng et al. | 204 | 547 | 01/30/1998 |
| ADD | 6,099,803 | 08/08/2000 | Ackley et al. | 422 | 68.1 | 02/20/1998 |
| ADD | 6,113,768 | 09/05/00 | Fuhr et al. | 204 | 643 | 09/09/1996 |
| ADD | 6,280,590 | 08/28/2001 | Cheng et al. | 204 | 463 | 04/13/2000 |
| ADD | 6,309,601 | 10/30/2001 | Juncosa et al. | 422 | 68.1 | 05/01/1997 |
| ADD | 6,335,161 B1 | 01/01/2002 | Martin et al. | 435 | 6 | 02/25/1998 |

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION YES NO |
|---------------------|--------------------|------------|-----------------------|-------|--------------|-----------------------|
| ADD | EP 0047645 B1 | 11/28/1984 | EP (Kashihara et al.) | — | — | — — |
| ADD | EP 0243501 A1 | 11/04/1987 | EP (Saeda et al.) | — | — | — — |
| ADD | JP 55-152027 A | 11/27/1980 | JP (Keisuke et al.) | — | — | — ✓ |
| ADD | JP 56-167419 A | 12/23/1981 | JP (Toshiji et al.) | — | — | — ✓ |
| ADD | JP 59-215838 A | 12/05/1984 | JP (Hideo et al.) | — | — | — ✓ |
| ADD | JP 59-227131 A | 12/20/1984 | JP (Hiroyuki et al.) | — | — | — ✓ |
| ADD | JP 01163049 A | 06/27/1989 | JP (Satoshi et al.) | — | — | — ✓ |
| ADD | JP 02292013 A | 12/03/1990 | JP (Hidekazu et al.) | — | — | — ✓ |
| ADD | USSR 434985 A1 | 01/21/1975 | USSR | — | — | — ✓ |

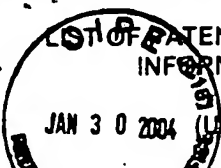
EXAMINER:

Kaj K. Olsen

DATE CONSIDERED:

1/10/05

EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant

| | | | |
|---|---|-----------------------|---------------------------------|
| FORM PTO-1449  | ATTY. DOCKET NO. 612404-384 (prev 267/156) | | SERIAL NO. 10/072,660 |
| | APPLICANT: Ying Huang, et al. | | |
| | FILING DATE: February 6, 2002 | GROUP: 1753 | |

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION YES | NO |
|---------------------|--------------------|------------|---------------------|-------|--------------|--------------------|----|
| ADD | USSR 616568 A1 | 07/25/1978 | USSR | — | — | | ✓ |
| ADD | WO 01/13126 A1 | 02/22/2001 | PCT (Heller et al.) | — | — | | |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) | |
|--|---|
| ADD | Becker et al., "The removal of human leukemia cells from blood using interdigitated microelectrodes," J. Phys. D: Appl. Phys. 27 (1994) 2659-2662. |
| ADD | Camag, Inc. Product Literature (Date Unknown). |
| ADD | Edman, C.F. et al., "Electric field directed nucleic acid hybridization on microchips", Nucleic Acids Research, Vol. 25, No. 24, pp. 4907-4914, (1997). |
| ADD | Fuhr et al., Positioning and Manipulation of Cells and Microparticles Using Miniaturized Electric Field Traps and Travelling Waves; Sensors and Materials, Vol. 7, No. 2 (1995) 131-146. |
| ADD | Fuhr, G., "Cell Manipulation and Cultivation Under AC Electric Field Influence in Highly Conductive Culture Media", Biochem. Biophys. Acta, Vol. 1158, pp. 40-46, (1993). |
| ADD | Markx et al., "Dielectrophoretic characterization and separation of micro-organisms", Microbiology (1994) 140, 585-591. |
| ADD | Markx et al., "Dielectrophoretic separation of bacteria using a conductivity gradient," Journal of Biotechnology, 51 (1996) 175-180. |
| ADD | Pethig R. et al., "Positive and negative dielectrophoretic collection of colloidal particles using interdigitated castellated microelectrodes," J. Phys. D: Appl. Phys, 24 (1992) 881-888 |
| ADD | Pethig, R., "Dielectrophoresis: Using Inhomogeneous AC Electrical Fields to Separate and Manipulate Cells," Critical Reviews in Biotechnology, 16(4):331-348 (1996) |
| ADD | Scanning Laser Microscopy Lab, Web Site print-out, http://www.science.uwaterloo.ca/research_groups/confocal (1997) |
| ADD | Sosnowski, R. et al., "Rapid determination of single base mismatch mutations in DNA hybrids by direct electric field control", Proc. Natl. Acad. Sci. USA, Vol. 94, pp. 1119-1123, February 1997. |
| ADD | Tony Wilson and Colin Sheppard, "Theory and Practice of Scanning Optical Microscopy", Academic Press, 1984 (ISBN-0-12-757760-2) |
| ADD | Wang et al., "Dielectrophoretic Manipulation of Particles," IEEE Transactions on Industry Applications, Vol. 33, No. 3 (May/June 1997) |
| ADD | Wang, X., "A Unified Theory of Dielectrophoresis and Travelling Wave Dielectrophoresis", J. Phys. D: Appl. Phys., Vol. 27, pp. 1571-1574, 1994. |
| ADD | Washizu, M., "Molecular Dielectrophoresis of Biopolymers", IEEE Trans. Industry Applicat., Vol. 30, pp. 835-843, 1994. |

| | |
|--|------------------------------------|
| EXAMINER: Kaj K. Olsen <i>Al D</i> | DATE CONSIDERED: 1/10/05 |
| EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant | |

Please type a plus sign (+) inside this box → +

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

| | |
|------------------------|----------------------------|
| Application Number | 10/072,660 |
| Filing Date | February 6, 2002 |
| First Named Inventor | Ying Huang |
| Group Art Unit | 1753 |
| Examiner Name | Alan D. Diamond |
| Attorney Docket Number | 612404-384 (prev. 267/156) |



| Examiner Initials * | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY |
|---------------------|----------------------|--------------------------------------|---|---|
| | Number | Kind Code ² (if known) | | |
| ADD | US-4,740,283 | — | Laas et al. | 04/26/1988 |
| ADD | US-5,062,942 | — | Kambara et al. | 11/05/1991 |

| Examiner Initials * | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | T ₆ |
|---------------------|-------------------------|---------------------|--------------------------------------|---|---|----------------|
| | Office ³ | Number ⁴ | Kind Code ⁵ (if known) | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Examiner Initials * | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume—issue number(s), publisher, city and/or country where published. | T ² |
|---------------------|---|----------------|
| | | |
| | | |

| | | | |
|--------------------|---|-----------------|---------|
| Examiner Signature |  | Date Considered | 1/10/05 |
|--------------------|---|-----------------|---------|

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

**LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT**

SEP 20 2004

(Use several sheets if necessary)

APPLICANT:

Ying Huang et al.

FILING DATE:

February 6, 2002

GROUP:

1741

U.S. PATENT DOCUMENTS

| EXAMINE R INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|----------------------|-----------------|-------|-----------------|-------|--------------|----------------|
| | US-3627137 | 12/71 | Bier | 210 | 321 | 10/68 |
| | US-4617102 | 10/86 | Tomblin et al | 204 | 299 | 03/85 |
| | US-4737259 | 04/88 | Ogawa et al | 204 | 299 | 12/86 |
| | US-4936963 | 06/90 | Mandecki et al | 204 | 182.8 | 05/89 |
| | US-5078853 | 01/92 | Manning et al | 204 | 299 | 03/91 |
| | US-5427664 | 06/95 | Stoey et al | 204 | 182.3 | 07/93 |
| | US-5593580 | 01/97 | Kopf | 210 | 321.75 | 03/95 |
| | US-5728267 | 03/98 | Flaherty | 210 | 321.67 | 11/94 |
| | US-6048690 | 04/00 | Heller et al | 435 | 006 | 05/97 |
| | US-6051380 | 04/00 | Sosnowski et al | 435 | 006 | 12/97 |

FOREIGN PATENT DOCUMENTS

| EXAMINE R INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATIO YES NO |
|----------------------|-----------------|-------|--------------------------|-------|--------------|----------------------|
| | DE 2051715A | 04/72 | Germany (Max Planck Ges) | | | |
| | GB 1359944A | 07/74 | GB (Miles Labs) | | | |
| | GB 2118975A | 11/83 | GB (Nishizawa) | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

| | |
|--|--|
| | CHENG, J., et al. "Preparation and Hybridization Analysis of DNA/RNA From E.coli On Microfabricated Bioelectronic Chips", Nature/Biotechnology, 16, pp. 541-546 (1998) |
| | GILLES, P.N., et al. "Single Nucleotide Polymorphic Discrimination By An Electronic Dot Blot Assay On Semiconductor Chips", Nature/Biotechnology v. 17, #4, pp. 365-370 (1999) |
| | HELLER, M.J. "An Active Microelectronics Device For Multiplex Analysis", IEEE Engineering in Medicine and Biology, pp. 100-104 (March/April 1996). |
| | HUANG, Y., et al. "Electric Manipulation of Bioparticles and Macromolecules on Microfabricated Electrodes" Analytical Chemistry, v.73, n.7, pp. 1549-1559 (2001) |

EXAMINER:

Not Yet Assigned

DATE CONSIDERED:

EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant

| | | | |
|--|--|---|--------------------------|
| FORM PTO-1449 | | ATTY. DOCKET NO. 612,404-384 (formerly 267/156) | SERIAL NO. 10/072,660 |
| LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | APPLICANT: Ying Huang et al. | |
| | | FILING DATE: February 6, 2002 | GROUP: 1741 |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) | | | |
| | MANZ, A., et al., "Miniaturized Total Chemical Analysis System: A Novel Concept for Chemical Sensing" Sensors and Actuators B1, pp. 244-248 (1990) | | |

Duplicate of
IDS Filed 4/15/03

| | |
|--|------------------|
| EXAMINER: Not Yet Assigned | DATE CONSIDERED: |
| EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant | |

FORM PTO-1449

ATTY. DOCKET NO.

612404-384

(prev 267/156)

SERIAL NO.

10/072,660

**LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT**

SEP 20 2004

(Use several sheets if necessary)

APPLICANT:

Ying Huang, et al.

FILING DATE:

February 6, 2002

GROUP:

1753

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|---------------------|--------------------|------------|-------------------|-------|--------------|----------------|
| | 3,346,479 | 10/10/1967 | Natelson | 204 | 301 | 04/09/1964 |
| | 3,375,187 | 03/26/1968 | Buchler | 204 | 301 | 05/13/1965 |
| | 3,533,933 | 10/13/1970 | Strauch | 204 | 180 | 04/01/1968 |
| | 3,539,493 | 11/10/1970 | Dorman | 204 | 299 | 08/31/1967 |
| | 3,616,454 | 10/26/1971 | Levy et al. | 204 | 299 | 03/13/1969 |
| | 3,640,813 | 02/08/1972 | Nernstberg | 204 | 299 | 06/09/1969 |
| | 3,697,405 | 10/10/1972 | K. Butter et al. | 204 | 275 | 11/03/1969 |
| | 3,773,648 | 11/20/1973 | Van Welzen et al. | 204 | 299 | 10/25/1972 |
| | 3,791,950 | 02/12/1974 | Allington | 204 | 299 | 02/14/1972 |
| | 3,902,986 | 09/02/1975 | Nees | 204 | 299 | 04/23/1973 |
| | 3,980,546 | 09/14/1976 | Caccavo | 204 | 299 | 06/27/1975 |
| | 4,111,785 | 09/05/1978 | Roskam | 204 | 180 | 05/16/1977 |
| | 4,326,934 | 04/27/1992 | Pohl | 204 | 547 | 12/31/1979 |
| | 4,390,403 | 06/28/1983 | Barthelder | 204 | 547 | 07/24/1981 |
| | 4,441,972 | 04/10/1984 | Pohl | 204 | 180 | 04/08/1983 |
| | 4,479,861 | 10/30/1984 | Hediger | 204 | 180 | 07/19/1983 |
| | 4,661,451 | 04/28/1987 | Hansen | 435 | 174 | 02/06/1984 |
| | 4,699,706 | 10/13/1987 | Burd et al. | 204 | 301 | 05/30/1986 |
| | 4,787,963 | 11/29/1988 | MacConnell | 204 | 180 | 05/04/1987 |
| | 4,877,510 | 10/31/1989 | Chen | 204 | 299 | 10/25/1988 |
| | 4,881,107 | 11/14/1989 | Matsushita | 357 | 23.4 | 06/29/1988 |
| | 4,908,112 | 03/13/1990 | Pace | 204 | 299 | 06/16/1988 |
| | 4,971,670 | 11/20/1990 | Faupel et al. | 204 | 182.8 | 04/08/1988 |

EXAMINER:

Kaj K. Olsen

DATE CONSIDERED:

EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant

Information Disclosure Statement – Section 9 PTO-1449

IR1:1019733

Page 1 of 4

FORM PTO-1449

ATTY. DOCKET NO.

612404-384

(prev 267/156)

SERIAL NO.

10/072,660

**LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT**

SEP 20 2004

(Use several sheets if necessary)

APPLICANT:

Ying Huang, et al.

FILING DATE:

February 6, 2002

GROUP:

1753

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|---------------------|--------------------|------------|---------------|-------|--------------|----------------|
| | 5,085,756 | 02/04/1992 | Swedberg | 204 | 299 | 08/21/1990 |
| | 5,126,022 | 06/30/1992 | Soane et al. | 204 | 180 | 02/28/1990 |
| | 5,139,637 | 08/18/1992 | MacConnell | 204 | 299 | 03/13/1991 |
| | 5,151,189 | 09/29/1992 | Hu et al. | 204 | 635 | 09/17/1990 |
| | 5,161,165 | 09/29/1992 | Huynh | 204 | 299 | 04/25/1990 |
| | 5,202,010 | 04/13/1993 | Guzman | 204 | 299 | 08/28/1991 |
| | 5,209,831 | 05/11/1993 | MacConnell | 204 | 299 | 06/14/1991 |
| | 5,217,593 | 06/08/1993 | MacConnell | 204 | 299 | 07/30/1992 |
| | 5,269,931 | 12/14/1993 | Hu et al. | 210 | 635 | 08/20/1991 |
| | 5,296,114 | 03/22/1994 | Manz | 204 | 180.1 | 11/30/1992 |
| | 5,340,499 | 08/23/1994 | Shukla | 204 | 180 | 10/23/1992 |
| | 5,344,535 | 09/06/1994 | Betts et al. | 204 | 183.1 | 04/27/1993 |
| | 5,376,249 | 12/27/1994 | Afeyan et al. | 204 | 180 | 11/25/1992 |
| | 5,382,511 | 01/17/1995 | Stapleton | 435 | 6 | 08/24/1992 |
| | 5,445,934 | 08/29/1995 | Fodor et al. | 435 | 6 | 09/30/1992 |
| | 5,434,049 | 07/18/1995 | Okano | 435 | 6 | 02/24/1993 |
| | 5,451,500 | 09/19/1995 | Stapleton | 435 | 6 | 03/03/1992 |
| | 5,527,670 | 06/18/1996 | Stanley | 435 | 6 | 08/09/1994 |
| | 5,569,367 | 10/29/1996 | Betts et al. | 204 | 547 | 01/27/1995 |
| | 5,589,047 | 12/31/1996 | Coster et al. | 204 | 450 | 04/05/1994 |
| | 5,605,662 | 02/25/1997 | Heller et al. | 422 | 68.1 | 11/01/1993 |
| | 5,632,957 | 05/27/1997 | Heller et al. | 422 | 68.1 | 09/09/1994 |
| | 5,653,859 | 08/05/1997 | Parton et al. | 204 | 450 | 11/20/1995 |

EXAMINER:

Kaj K. Olsen

DATE CONSIDERED:

EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant

612404-384
(prev 267/156)

10/072,660

LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT

SEP 20 2004

(Use several sheets if necessary)

APPLICANT:

Ying Huang, et al.

FILING DATE:

February 6, 2002

GROUP:

1753

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE |
|---------------------|--------------------|------------|----------------|-------|--------------|----------------|
| | 5,653,939 | 08/05/1997 | Hollis et al. | 422 | 50 | 08/07/1995 |
| | 5,795,457 | 08/18/1998 | Pethig et al. | 204 | 547 | 06/05/1995 |
| | 5,814,200 | 09/29/1998 | Pethig et al. | 204 | 547 | 09/26/1995 |
| | 5,849,486 | 12/15/1998 | Heller et al. | 435 | 6 | 09/27/1995 |
| | 5,858,192 | 01/12/1999 | Becker et al. | 204 | 547 | 10/18/1996 |
| | 6,017,696 | 01/25/2000 | Heller | 435 | 6 | 07/07/1994 |
| | 6,054,270 | 04/25/2000 | Southern | 435 | 6 | 09/09/1997 |
| | 6,071,394 | 06/06/2000 | Cheng et al. | 204 | 547 | 01/30/1998 |
| | 6,099,803 | 08/08/2000 | Ackley et al. | 422 | 68.1 | 02/20/1998 |
| | 6,113,768 | 09/05/00 | Fuhr et al. | 204 | 643 | 09/09/1996 |
| | 6,280,590 | 08/28/2001 | Cheng et al. | 204 | 463 | 04/13/2000 |
| | 6,309,601 | 10/30/2001 | Juncosa et al. | 422 | 68.1 | 05/01/1997 |
| | 6,335,161 B1 | 01/01/2002 | Martin et al. | 435 | 6 | 02/25/1998 |

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION YES NO |
|---------------------|--------------------|------------|-----------------------|-------|--------------|-----------------------|
| | EP 0047645 B1 | 11/28/1984 | EP (Kashihara et al.) | | | |
| | EP 0243501 A1 | 11/04/1987 | EP (Saeda et al.) | | | |
| | JP 55-152027 A | 11/27/1980 | JP (Keisuke et al.) | | | |
| | JP 56-167419 A | 12/23/1981 | JP (Toshiji et al.) | | | |
| | JP 59-215838 A | 12/05/1984 | JP (Hideo et al.) | | | |
| | JP 59-227131 A | 12/20/1984 | JP (Hiroyuki et al.) | | | |
| | JP 01163049 A | 06/27/1989 | JP (Satoshi et al.) | | | |
| | JP 02292013 A | 12/03/1990 | JP (Hidekazu et al.) | | | |
| | USSR 434485 | 01/21/1975 | USSR | | | |

EXAMINER:

Kaj K. Olsen

DATE CONSIDERED:

EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant

FORM PTO-1449

ATTY. DOCKET NO.

612404-384
(prev 267/156)

SERIAL NO.

10/072,660

LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT

SEP 20 2004

(Use several sheets if necessary)

APPLICANT:

Ying Huang, et al.

FILING DATE:

February 6, 2002

GROUP:

1753

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION YES NO |
|---------------------|--------------------|------------|---------------------|-------|--------------|-----------------------|
| | USSR 616568 | 07/25/1978 | USSR | | | |
| | WO 01/13126 A1 | 02/22/2001 | PCT (Heller et al.) | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

| | |
|--|---|
| | Becker et al., "The removal of human leukemia cells from blood using interdigitated microelectrodes," J. Phys. D: Appl. Phys. 27 (1994) 2659-2662 |
| | Camag, Inc. Product Literature |
| | Edman, C.F. et al., "Electric field directed nucleic acid hybridization on microchips", Nucleic Acids Research, Vol. 25, No. 24, pp. 4907-4914, 1997. |
| | Fuhr et al., Positioning and Manipulation of Cells and Microparticles Using Miniaturized Electric Field Traps and Travelling Waves; Sensors and Materials, Vol. 7, No. 2 (1995) 131-146 |
| | Fuhr, G., "Cell Manipulation and Cultivation Under AC Electric Field Influence in Highly Conductive Culture Media", Biochem. Biophys. Acta, Vol. 1158, pp. 40-46, 1993 |
| | Markx et al., "Dielectrophoretic characterization and separation of micro-organisms", Microbiology (1994) 140, 585-591 |
| | Markx et al., "Dielectrophoretic separation of bacteria using a conductivity gradient," Journal of Biotechnology, 51 (1996) 175-180 |
| | Pethig R. et al., "Positive and negative dielectrophoretic collection of colloidal particles using interdigitated castellated microelectrodes," J. Phys. D: Appl. Phys. 24 (1992) 881-888 |
| | Pethig, R., "Dielectrophoresis: Using Inhomogeneous AC Electrical Fields to Separate and Manipulate Cells," Critical Reviews in Biotechnology, 16(4):331-348 (1996) |
| | Scanning Laser Microscopy Lab, Web Site print-out, http://www.science.uwaterloo.ca/research_groups/confocal (1997) |
| | Sosnowski, R. et al., "Rapid determination of single base mismatch mutations in DNA hybrids by direct electric field control", Proc. Natl. Acad. Sci. USA, Vol. 94, pp. 1119-1123, February 1997. |
| | Tony Wilson and Colin Sheppard, "Theory and Practice of Scanning Optical Microscopy", Academic Press, 1984 (ISBN-0-12-757760-2) |
| | Wang et al., "Dielectrophoretic Manipulation of Particles," IEEE Transactions on Industry Applications, Vol. 33, No. 3 (May/June 1997) |
| | Wang, X., "A Unified Theory of Dielectrophoresis and Travelling Wave Dielectrophoresis", J. Phys. D: Appl. Phys., Vol. 27, pp. 1571-1574, 1994. |
| | Washizu, M., "Molecular Dielectrophoresis of Biopolymers", IEEE Trans. Industry Applicat., Vol. 30, pp. 835-843, 1994. |

EXAMINER:

Kaj K. Olsen

DATE CONSIDERED:

EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant